

lb/A

BROOKSIDE LABORATORIES, INC.

48318-3

SOIL AUDIT AND INVENTORY REPORT

Name Boulder City Municipal Golf City Boulder City State NVIndependent Consultant Soil and Water Consulting Date 9/17/2008

Sample Location			TEE	#2	#9	#18		
Sample Identification								
Lab Number				0508-1	0509-1	0510-1		
Total Exchange Capacity (ME/100 g)				16.22	15.50	18.46		
pH (H ₂ O 1:1)				7.1	a7.7	a7.5		
Organic Matter (360°C LOI) %				3.65	1.84	1.69		
Estimated Nitrogen Release lb/A				86	57	54		
ANIONS	SOLUBLE SULFUR* ppm			36	46	42		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅		444	449	348		
			ppm of P	97	98	76		
		BRAY II lb/A P as P ₂ O ₅		1159	1172	1145		
			ppm of P	253	256	250		
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	4868	4384	5452		
			ppm	2434	2192	2726		
	MAGNESIUM*		lb/A	508	540	586		
			ppm	254	270	293		
	POTASSIUM*		lb/A	430	568	580		
			ppm	215	284	290		
	SODIUM*		lb/A	316	454	424		
			ppm	158	227	212		
BASE SATURATION PERCENT								
Calcium %				75.03	70.71	73.84		
Magnesium %				13.05	14.52	13.23		
Potassium %				3.40	4.70	4.03		
Sodium %				4.24	6.37	4.99		
Other Bases %				4.30	3.70	3.90		
Hydrogen %				0.00	0.00	0.00		
EXTRACTABLE MINORS								
Boron* (ppm)				0.93	0.85	0.75		
Iron* (ppm)				171	133	124		
Manganese* (ppm)				23	27	27		
Copper* (ppm)				1.31	0.85	1.00		
Zinc* (ppm)				22.86	17.26	17.35		
Aluminum* (ppm)				93	77	34		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

a - alkaline soil

* Mehlich III Extractable

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Sample Location	FAIRWAY	#2	#9	#18		
Sample Identification						
Lab Number		0511-1	0512-1	0513-1		
Total Exchange Capacity (ME/100 g)		16.71	13.96	18.83		
pH (H ₂ O 1:1)		a 7.7	a 7.5	a 7.8		
Organic Matter (360°C LOI) %		1.62	2.30	1.27		
Estimated Nitrogen Release lb/A		52	66	45		
ANIONS	SOLUBLE SULFUR*	ppm	32	31	45	
	MEHLICH III	lb/A P as P ₂ O ₅	284	499	302	
		ppm of P	62	109	66	
	BRAY II	lb/A P as P ₂ O ₅	1113	1383	1058	
		ppm of P	243	302	231	
EXCHANGEABLE CATIONS	OLSEN	lb/A P as P ₂ O ₅				
		ppm of P				
	CALCIUM*	lb/A	4878	3778	5580	
		ppm	2439	1889	2790	
	MAGNESIUM*	lb/A	566	564	574	
		ppm	283	282	287	
	POTASSIUM*	lb/A	576	646	676	
		ppm	288	323	338	
	SODIUM*	lb/A	366	366	432	
		ppm	183	183	216	
BASE SATURATION PERCENT						
	Calcium	%	72.98	67.66	74.08	
	Magnesium	%	14.11	16.83	12.70	
	Potassium	%	4.42	5.93	4.60	
	Sodium	%	4.76	5.70	4.99	
	Other Bases	%	3.70	3.90	3.60	
	Hydrogen	%	0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron* (ppm)		0.96	0.77	0.91	
	Iron* (ppm)		69	99	45	
	Manganese* (ppm)		24	29	24	
	Copper* (ppm)		0.77	0.97	0.60	
	Zinc* (ppm)		19.61	19.80	13.77	
	Aluminum* (ppm)		124	229	40	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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Sample Location			GREEN	#2	#9	#18		
Sample Identification								
Lab Number				0514-1	0515-1	0516-1		
Total Exchange Capacity (ME/100 g)				11.32	13.79	12.97		
pH (H ₂ O 1:1)				a 7.5	a 7.7	a 7.5		
Organic Matter (360°C LOI) %				3.07	2.43	2.83		
Estimated Nitrogen Release lb/A				81	69	77		
ANIONS	SOLUBLE SULFUR* ppm			37	49	35		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	ppm of P	710 155	623 136	582 127		
		BRAY II lb/A P as P ₂ O ₅	ppm of P	1282 280	1012 221	1168 255		
		OLSEN lb/A P as P ₂ O ₅	ppm of P					
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	3184	3748	3574		
			ppm	1592	1874	1787		
	MAGNESIUM*		lb/A	446	602	524		
			ppm	223	301	262		
	POTASSIUM*		lb/A	342	470	486		
			ppm	171	235	243		
	SODIUM*		lb/A	286	366	334		
			ppm	143	183	167		
BASE SATURATION PERCENT								
Calcium %				70.32	67.95	68.89		
Magnesium %				16.42	18.19	16.83		
Potassium %				3.87	4.37	4.80		
Sodium %				5.49	5.77	5.60		
Other Bases %				3.90	3.70	3.90		
Hydrogen %				0.00	0.00	0.00		
EXTRACTABLE MINORS								
Boron* (ppm)				0.76	0.97	0.89		
Iron* (ppm)				340	319	292		
Manganese* (ppm)				24	31	33		
Copper* (ppm)				2.20	2.84	2.63		
Zinc* (ppm)				39.97	48.28	43.50		
Aluminum* (ppm)				144	149	170		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

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